

As a recent graduate of the University of Arkansas in Mechanical and Electrical Engineering, and as a current graduate student in Electrical Engineering at the University of Florida, I respectfully submit that these comments represent a somewhat competent understanding of the challenges and drawbacks facing the question of allowing Broadband Over Power Line in national residential markets, including those in central Florida.

While benefits of this technology are clearly obvious, they do come at great cost to the potential of further wireless services in these same markets as evidenced by both previous and future reports offered by the American Radio Relay League with respect to excess EMI produced by the radiant nature of powerlines at frequencies employed in the modulation of said broadband services. I would further like to suggest that independent empirical studies should be conducted, and I believe these studies will show the excessive Electromagnetic "pollution" associated with BPL, which must be addressed before allowing implementation of these services. The Federal Communications Commission has, in the past, striven to adequately protect the precious national resource of wireless frequency bandwidth and I hope it will continue to do so. At first glance, I feel that the detrimental impact of BPL on wireless spectrum, both in Amateur and Commercial bands, denotes sufficient gravity to discontinue pilot implementation of BPL. As an Engineer In Training, I feel it bad Engineering practice to tacitly encourage such impressive amounts of spurious RF noise as would be produced by the mass implementation of BPL. Finally, unless proponents of BPL can overcome the EMI drawbacks of this technology in a manner consistent with Part 15 or other applicable Federal guidelines, I must, as a resident of the State of Florida contend that BPL is a poor choice for the residents of this great state. Fiber Optic Technologies, though much more expensive and capitally extensive, represent a much better alternative to BPL, and do not share the same detrimental EMI characteristics that I feel sound the death knell for BPL technologies in their current state.

Thank you for the opportunity to file these comments and I look forward to seeing the FCC act in a responsible manner as it reviews the question of Broadband Over Power Line.

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